UAV SYSTEMS COMPARISON

RQ-1B PREDATOR

BQM-155A HUNTER

RQ-4A GLOBAL HAWK

UAV COMPARISON DATA

	PREDATOR	**PIONEER**	**HUNTER**
SUBSYSTEMS	4 Air Vehicles	5 Air Vehicles	8 Air Vehicles
	1 GCS	1 GCS	2 Ground Control Stations
	1 Trojan Spirit II Dissemination System	1 Tracking & Communication Unit	1 Mission Planning Shelter
	Ground Support Equipment	1 Portable Control Station	1 Launch and Recovery Shelter
		1 Launcher Truck	8 Modular Mission Payloads
		Ground Support Equipment	4 Air Data Relays
			Launch and Recovery Equipment
			Ground Support Equipment

UAV COMPARISON DATA

	PREDATOR	PIONEER	HUNTER
SENSORS	EO, IR and SAR	EO and IR	EO and IR
DEPLOYMENT	Multiple C-130 Sorties	5 C-5s	
RADIUS	926 km (500 nm)	185 km GCS, 40km PCS	125 km GCS, 50km LRS, 75 km ADR
ENDURANCE	>20 hrs	4-5 hrs	
MAX ALTITUDE	25 kft	15 kft	16 kft
CRUISE SPEED	70-120 knts	65 knts	70 knts
RUNWAY	3000' x 100' min	2000' x 80' min	2000' x 100' min
DATA LINK	LOS C band or Ku Band Satellite	LOS C band or UHF	LOS C band
FUEL	110 octane low lead AVGAS	100 octane low lead AVGAS	Type 87 MOGAS
MAX GROSS T/O WT	2100 lbs	455 lbs	2100 lbs

UAV COMPARISON DATA

	PREDATOR	PIONEER	HUNTER
POWERPLANT	105hp Rotax 914 turbocharged 4 cyl engine	27 hp Sachs 2 cyl, 2 stroke pusher engine	2 Moto Guzzi 750cc engs pusher/puller
LENGTH	27 ft	14 ft	22.6 ft
HEIGHT	6.9 ft	3.3 ft	5.6 ft
WEIGHT	950 lbs	455 lbs	1200 lbs
WING SPAN	48.7 ft	16.9 ft	29.2 ft
FUEL CAPACITY	665 lbs	45 ltrs	190 ltrs
PAYLOAD	450 lbs	200 lbs	200 lbs

UAV COMPARISON DATA

	PREDATOR	PIONEER	HUNTER
DATA LINK LOSS	Auto Return Home	Auto Return Home	Auto Return Home
EMERGENCY RECOVERY	Parachute		Parachute
WEATHER LIMITS:			
WINDS	T/O Cross: 15 kts T/O Head: 30 kts	T/O Cross: 20 kts T/O Head: 25 kts T/O Tail: 5 kts	T/O Cross: 15 kts T/O Head: 25 kts
RAIN	No visible moisture	No visible moisture	Limited visible moisture
LIMITED ICING	No	No	No
TURBULENCE	Light	Light	Light

WHY USE PIONEER?

- **Advantages**

  - **MAGTF Commander remains in control of assets**

  - **Less reliant on outside sources for airborne recce**

  - **Operational flexibility (dynamic retasking)**

  - **Smaller footprint than other UAV systems**

QUESTIONS?

THIS BRIEF IS UNCLASSIFIED